## **ABSTRACT**

The present invention provides a chemiluminescence enhancer treated to retain favorable dispersibility of fine solid carriers and stably exert a chemiluminescence invention provides The enhancing action. chemiluminescence enhancer used for signal detection in a solid phase immunoassay using antigen or/and antibody immobilized onto fine solid carriers dispersible in a consisting of water soluble medium, а liquid macromolecular quaternary ammonium salt, a quaternary sulfonium salt or a quaternary phosphonium salt in order to enhance emission of light caused by an enzymatic reaction of a chemiluminescent substrate having dioxetane, wherein the chemiluminescence enhancer is given of fine aggregation inhibition treatment the carriers by the treatment with an oxidizing agent or a reducing agent, and a chemiluminescence method and a kit using the chemiluminescence enhancer.

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